

The graph, titled "Inlet Manifold Step Filling Response", plots Mass Air Flow in g/s (left y-axis, 0 to 2.25) against Time in s (x-axis, 0 to 1.0). It shows the response of the inlet manifold to a step change in throttle position. The initial steady-state flow is 0.75 g/s. At t = 0.15 s, the throttle is moved to a new position, causing a step increase in flow. The response curves for three throttle positions are shown: 50 (solid line), 52 (dashed line), and 51 (dotted line). The 50 throttle position reaches the highest steady-state flow of approximately 2.25 g/s. The 52 and 51 throttle positions reach lower steady-state flows of approximately 1.9 g/s and 1.7 g/s, respectively. The 2000 rpm curve is also shown, reaching a steady-state flow of approximately 1.9 g/s. The 650 rpm curve is also shown, reaching a steady-state flow of approximately 1.7 g/s. The graph is labeled "PRIOR ART Fig.2" and "Closed" on the right side.